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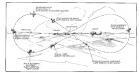
By Basiel J. Brimm, Jr.

Part I

ETS assume that you are about to take your first acrobatic field. The weather is good and the air not too

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The Cost of OWNING AND OPERATING

Small Aircraft

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How much does it cost to operate an airplane? Here is an interesting grower. By Carl W Terry

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Intermediate Caliber Aircraft -What Are They?



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Nearly every type of warplane now used by the belliocrent powers carries a small or medium caliber cannon. In this article the author describes the nort played by marking ours and the various sizes of aircraft cannon in combat airplanes

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Cannon

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GROUND STATION DIRECTION

Europe and the United States have employed two different systems of air navigation. In the possibility that navigation by triangulation will be used in this country on in Europe, United Air Lines. has been studying equipment for the most efficient exerction.

Ry Peter C. Sandrette

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CONVEYOR BELT SYSTEM

Prott & Whitney's new engine assembly plant employs a convevor belt eveters to feed the line. This mass production method is reflected in their weadortion rate of 1,000,000 hrs. wer worth and a daily increase of ten ner cent in cirplane engine production

ENGINE PRODUCTION resided has recode uses that \$80,000 to it.

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WHY A REAR ENGINE

Part II of this article describes the problems met and averages in the extended drive short engine installation of the Rell D.19

Ry Robert J. Weeds Chief Decice Engleses, Bell Already Caro.

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PLANT LAYOUT

AS A FACTOR IN EXPANDING PRODUCTION

Layout of new plants is a common problem to the entire aeconaptical industry. Here are ways to speed production through efficient physical arrangement

Ry C. W. S. Porsers

M.E. Consilien

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These tires grew UP with aviation



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Jean 1885



Drop Hammer Technique

Drop between are an important factor in mass production. Equally important is bow to use them. Here are some facts and forum on the consistent of Lockhard

By J. S. J. Highli and J. A. Petrie

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Bry Henner Stelladjon

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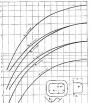
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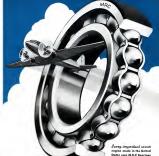
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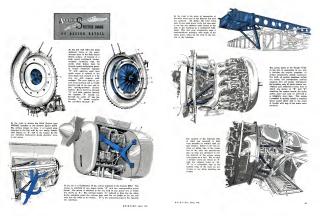
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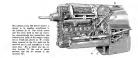
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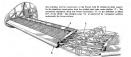
Leak-Penul

Postler scaling . . . of poport type expensation, this Vickers valve Exceptional Burshility is surface feature; also seed bases are used for valve sents and poppets. The manifolding design permits removal of individual units (containing all moving parts) for replacement without disconnecting any pipers. Provious engineered by America's Income manufacturer of mover bedrough devices, the Vickers Directional

> VICKERS Incorporated - 1488 OAKMAN BLVD. DITEOUT. MICHIGAN











Dynamic Engine Suspension

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CHANGHAFT REM

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Thread Cutting Screws For Fastening

By J. B. O'Gossor

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WRIGHT Aircraft ENGINES









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Built for shipboard operation

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Swirr in action, deadly as its namewise, the Bell Arteroben, with an aircraft carroon fainer through the hub of a specially designed Curtiss Electric Pro-

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Many pre-war English lightplane engines are pervise a vital purpose in their present training program. Two such engines are the Circus Motor and Miner, of Invested attraceded in line dealers

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THE P-38 INTERCEPTOR

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Aviation's Perspective Position By Seliz Altschul

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Franklin-Powered Culver

From the Culter Aircraft Corporation comes announcement of the new Model Carlet powered by an 80 hp. aircooled engine with added equipment and considerably imversed according performance.







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37 ft, overall length 17 ft 8 ss, overs height 5 ft 6 fts, landing-pear trea 27 fts, and has a warp landing of 80 ft ft. per lap

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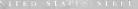
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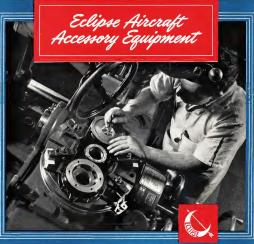


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